

Abstract

The invention is a novel sputter deposition process for thin film phosphors that provide high luminance and colors required for TV applications.

1. A sputter deposition process for thin film phosphors, comprising the steps of: (a) providing a substrate; (b) sputtering a phosphor material onto the substrate; (c) heating the substrate to a temperature between 100°C and 200°C; and (d) cooling the substrate to a temperature between 20°C and 50°C.